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DATE MAILED: 02/13/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/810,792	03/16/2001	Nathan G. Clark	990471 U2 USA	9172
7590 02/13/2004			EXAMINER	
John F. Booth			BERGIN, JAMES S	
CRUTSINGER				D . DDD . WD . DDD
Suite 1950, Thanksgiving Tower			ART UNIT	PAPER NUMBER
1601 Elm Street			3641	
Dallac TY 7	5201			

Please find below and/or attached an Office communication concerning this application or proceeding.

r ·	Application No.	Applicant(s)			
	09/810,792	CLARK ET AL.			
Office Action Summary	Examiner	Art Unit			
	James S. Bergin	3641			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).  Status	36(a). In no event, however, may a reply be tim within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
1) Responsive to communication(s) filed on 23 Second	eptember 2003.				
2a) ☐ This action is FINAL. 2b) ☑ This	action is non-final.	•			
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
<ul> <li>4)  Claim(s) 1-22 and 25-37 is/are pending in the application.</li> <li>4a) Of the above claim(s) is/are withdrawn from consideration.</li> <li>5)  Claim(s) is/are allowed.</li> <li>6)  Claim(s) 1-22 and 25-37 is/are rejected.</li> <li>7)  Claim(s) is/are objected to.</li> <li>8)  Claim(s) are subject to restriction and/or election requirement.</li> </ul>					
Application Papers					
9) The specification is objected to by the Examiner.  10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to the					
Replacement drawing sheet(s) including the correcti	-, ,	, ,			
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. §§ 119 and 120					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priori application from the International Bureau * See the attached detailed Office action for a list of since a specific reference was included in the firs 37 CFR 1.78.  a) The translation of the foreign language profits Acknowledgment is made of a claim for domestic reference was included in the first sentence of the refe	s have been received. s have been received in Application ity documents have been received i (PCT Rule 17.2(a)). of the certified copies not received c priority under 35 U.S.C. § 119(ext sentence of the specification or visional application has been received c priority under 35 U.S.C. §§ 120	on No  d in this National Stage  d. e) (to a provisional application) in an Application Data Sheet.  eived. and/or 121 since a specific			
Attachment(s)					
Notice of References Cited (PTO-892)     Notice of Draftsperson's Patent Drawing Review (PTO-948)     Information Disclosure Statement(s) (PTO-1449) Paper No(s) 10	5) Notice of Informal Pa	(PTO-413) Paper No(s) atent Application (PTO-152)			

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#### **DETAILED ACTION**

## Response to Arguments

1. Applicant's arguments filed 5/19/2003 have been fully considered but they are not persuasive. The examiner agrees that Reese teaches the use of tungsten within a specified range: "A range of compositions of powdered metal mixture, including powdered tungsten up to about 90%...down to powdered tungsten of about 70%....has been tested. It has been determined through this testing that mixture compositions within the specified range still provide effective shaped charge performance." Col. 3, II. 55-62. The examiner disagrees with the applicants' position that Reese teaches away from the applicants' claimed range of tungsten content by implying that increasing the tungsten content over the specified range would result in a shaped charge that is not effective. Reese does not disclose testing powdered tungsten above 90% and so no implication as to the expected success or otherwise of a tungsten content of above 90% can be fairly made.

The examiner maintains the position that Kock et al. is analogous art. In the 103 rejection Kock et al. is being relied on for its teaching of a powder liner composition wherein the percentage of tungsten is up to 95%. The examiner has made no suggestion whatsoever to use Kock et al.'s projectile in a downhole environment.

#### Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the

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invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

3. Claims 1-22 and 25-37 are rejected under 35 U.S.C. 103(a) as being unpatentable over Reese et al. (US 5,656,791A) in view of Kock et al. (US 4,498,395A).

Reese et al. teach a shaped charge containing up to 90% tungsten in combination with powdered metal binder as the materials for the liner. Kock et al. teach a powder liner composition wherein the percentage of tungsten is up to 95%. It would have been obvious, to one of ordinary skill in that art at the time that the invention was made, to employ a higher percentage than 90% tungsten in the shaped charge of array of Reese et al. in view of Kock et al.'s teaching that such a percentage would work.

## Double Patenting

4. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

5. Claims 1-22 and 25-37 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1, 3, 4, 5, 7-11, 14-17, 20 and 22-24 of copending Application No. 09/504,332. Although the conflicting claims are not identical, they are not patentably distinct from each other

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because claims 1, 3, 4, 5, 7-11, 14-17, 20 and 22-24 of the copending application,

clearly disclose the claimed invention.

This is a <u>provisional</u> obviousness-type double patenting rejection because the

conflicting claims have not in fact been patented.

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to

applicant's disclosure. Held et al. (US 4,613,370 A), Lowden et al. (US 5,963,776 A) and

DE 3729780 A1 (Poeschel et al.).

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to James S. Bergin whose telephone number is 703 308-

8549. The examiner can normally be reached on Monday - Wednesday and Friday,

8.30 - 5.30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Michael Carone can be reached on 703 306-4198. The fax phone number

for the organization where this application or proceeding is assigned is 703 305-7687.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is 703 306-

4177.

James S. Bergin

SUPERVISORY PATENT EX

January 11, 2004

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